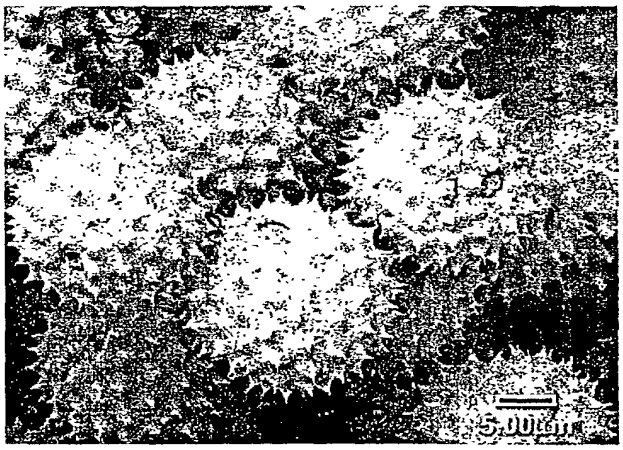

Figure 1: POLLEN GRAINS of *Ambrosia trifida* (Giant Ragweed) by Scanning Electron Microscopy

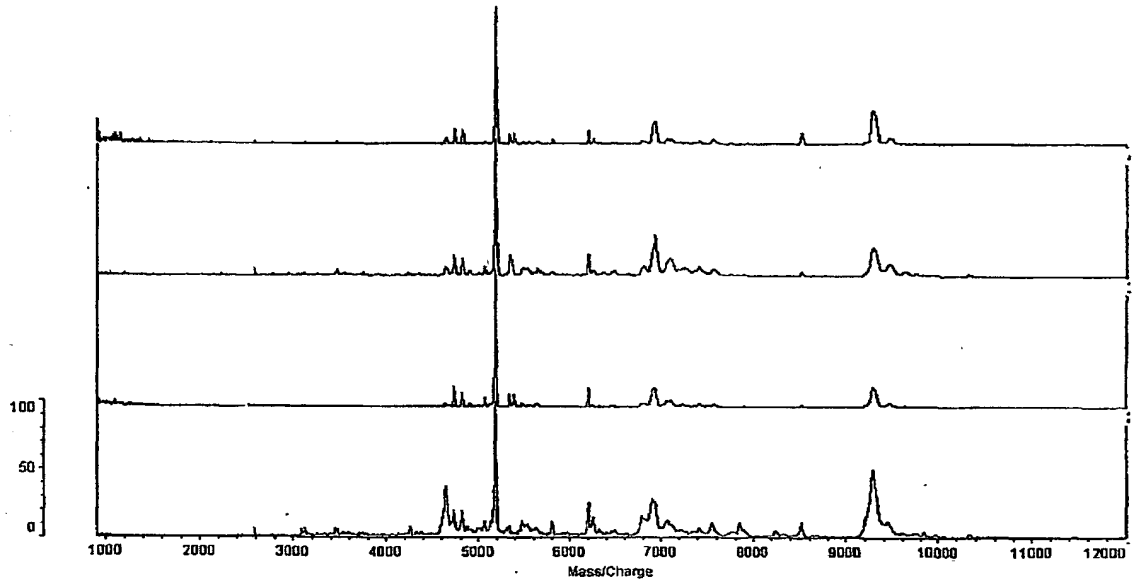

Figure 2: MALDI-TOF-MS of *Juglans nigra* in 4-HCCA, sinapinic acid (0.1%TFA), ferulic acid, and sinapinic acid (5% TFA) matrices.

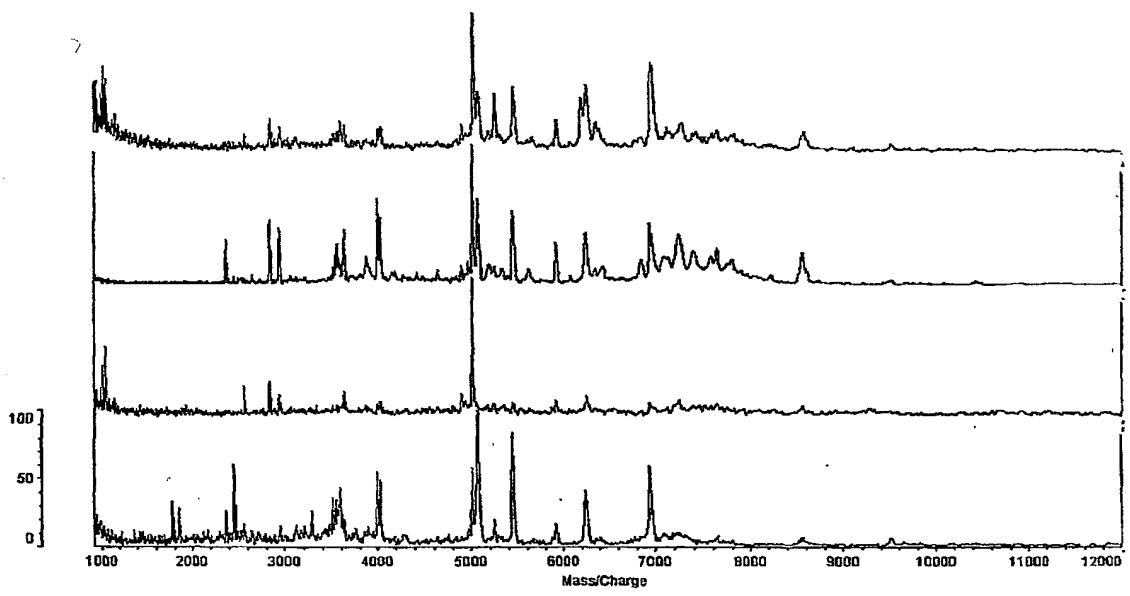

Figure 3: MALDI-TOF-MS of *Kochia scoparia* in 4-HCCA, sinapinic acid (0.1%TFA), ferulic acid, and sinapinic acid (5% TFA) matrices.

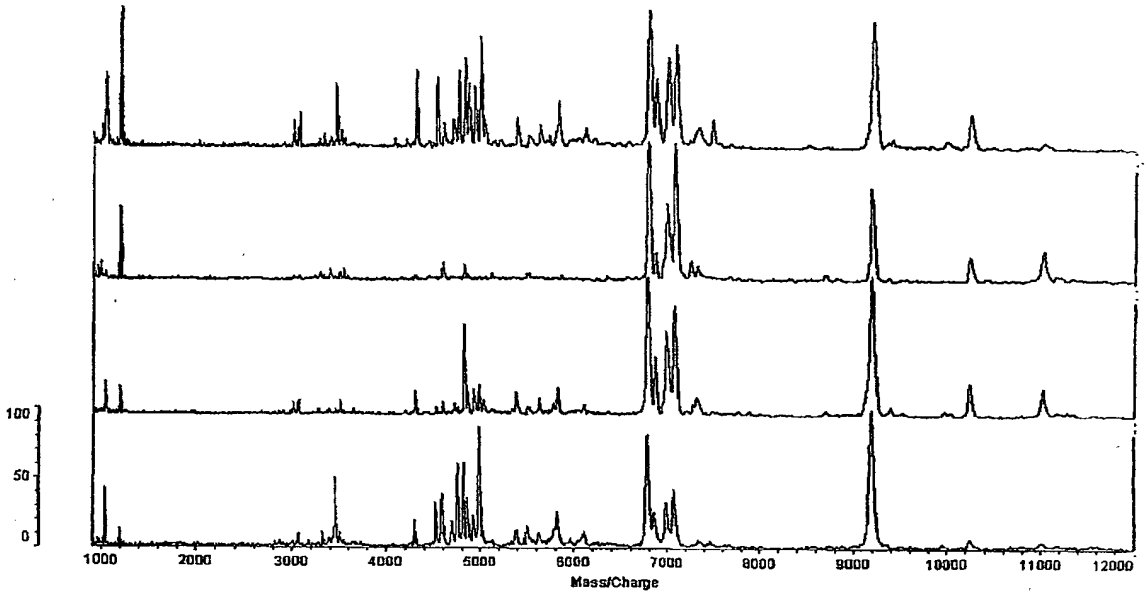

Figure 4: MALDI-TOF-MS of *Ambrosia trifida* in 4-HCCA, sinapinic acid (0.1%TFA), ferulic acid, and sinapinic acid (5% TFA) matrices.

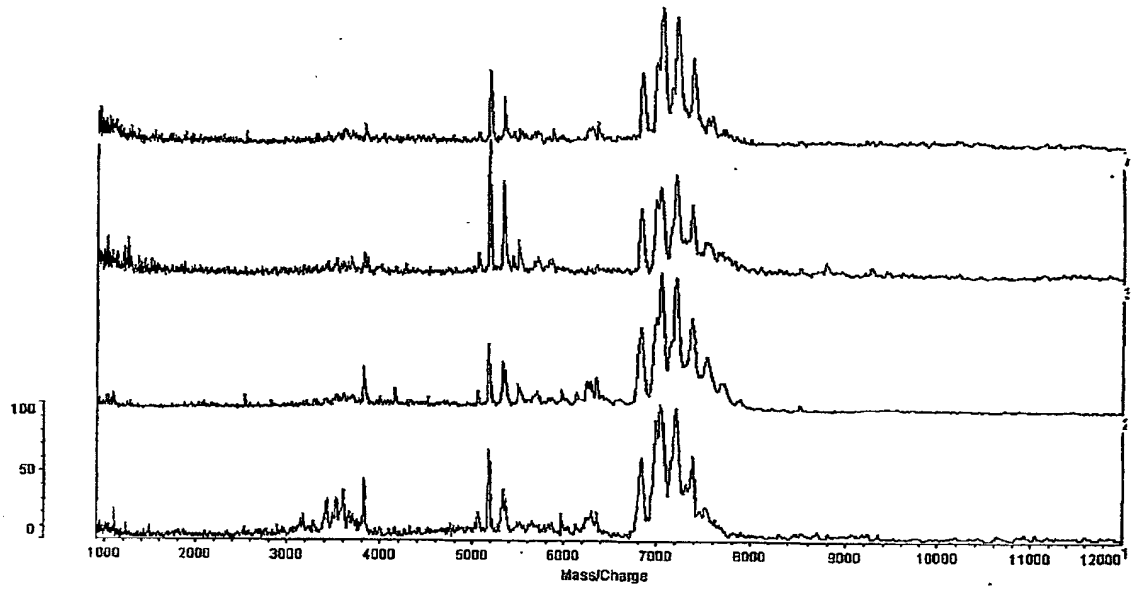

Figure 5: MALDI-TOF-MS of *Populus deltiodes* in 4-HCCA, sinapinic acid (0.1%TFA), ferulic acid, and sinapinic acid (5% TFA) matrices.

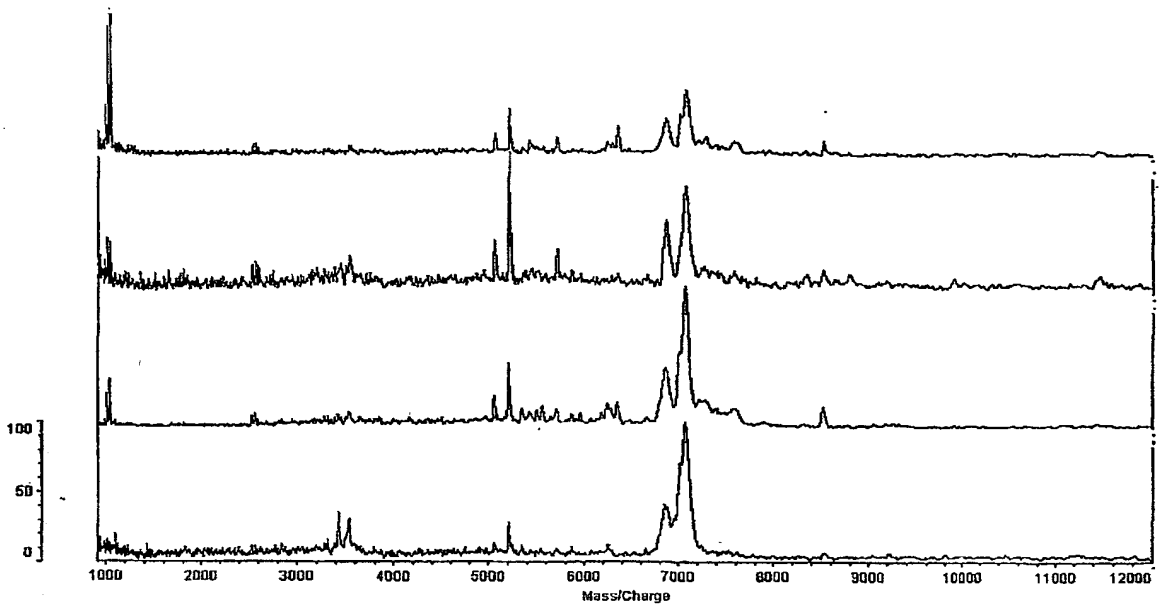

Figure 6: MALDI-TOF-MS of *Populus nigra italica* in 4-HCCA, sinapinic acid (0.1%TFA), ferulic acid, and sinapinic acid (5% TFA) matrices.

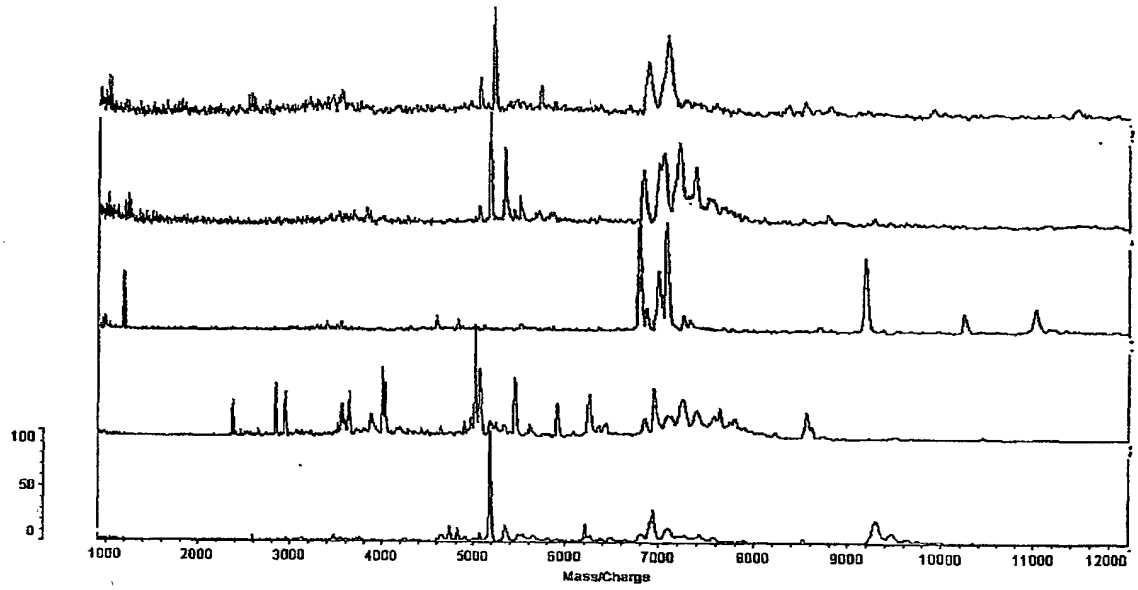

Figure 7: Pollen grains in ferulic acid matrix: (from bottom to top) *Juglans nigra, Kochia scoparia, Ambrosia trifida, Populus deltiodes, and Populus nigra italica.*

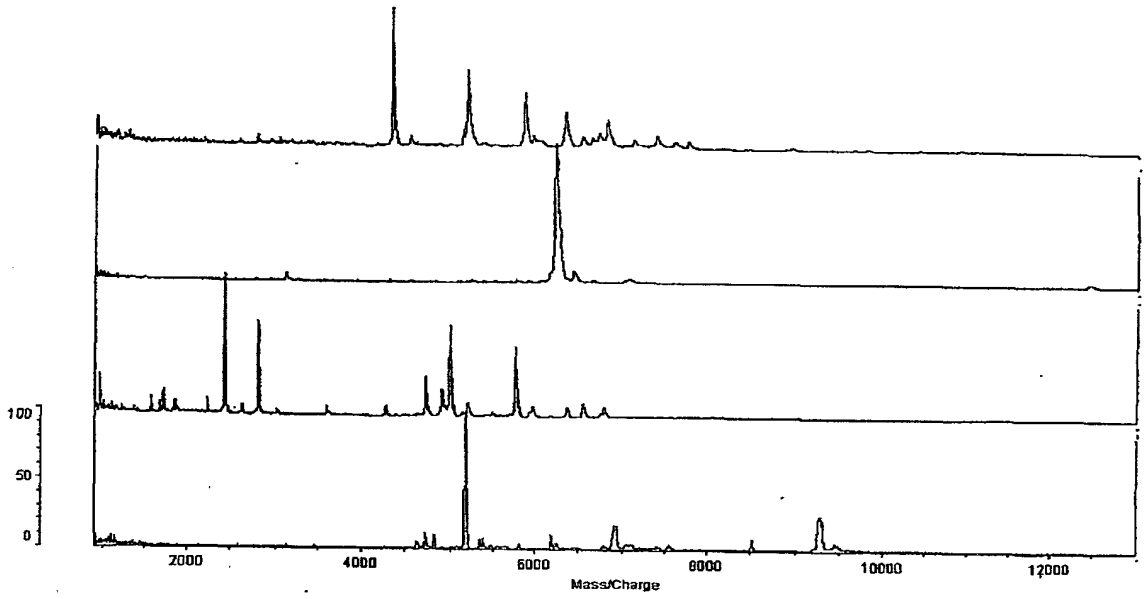

Figure 8: MALDI-TOF-MS of Juglans nigra and environmental isolates (*Staphylococcus sp., Micrococcus sp., and Bacillus sp.*) in sinapinic acid.

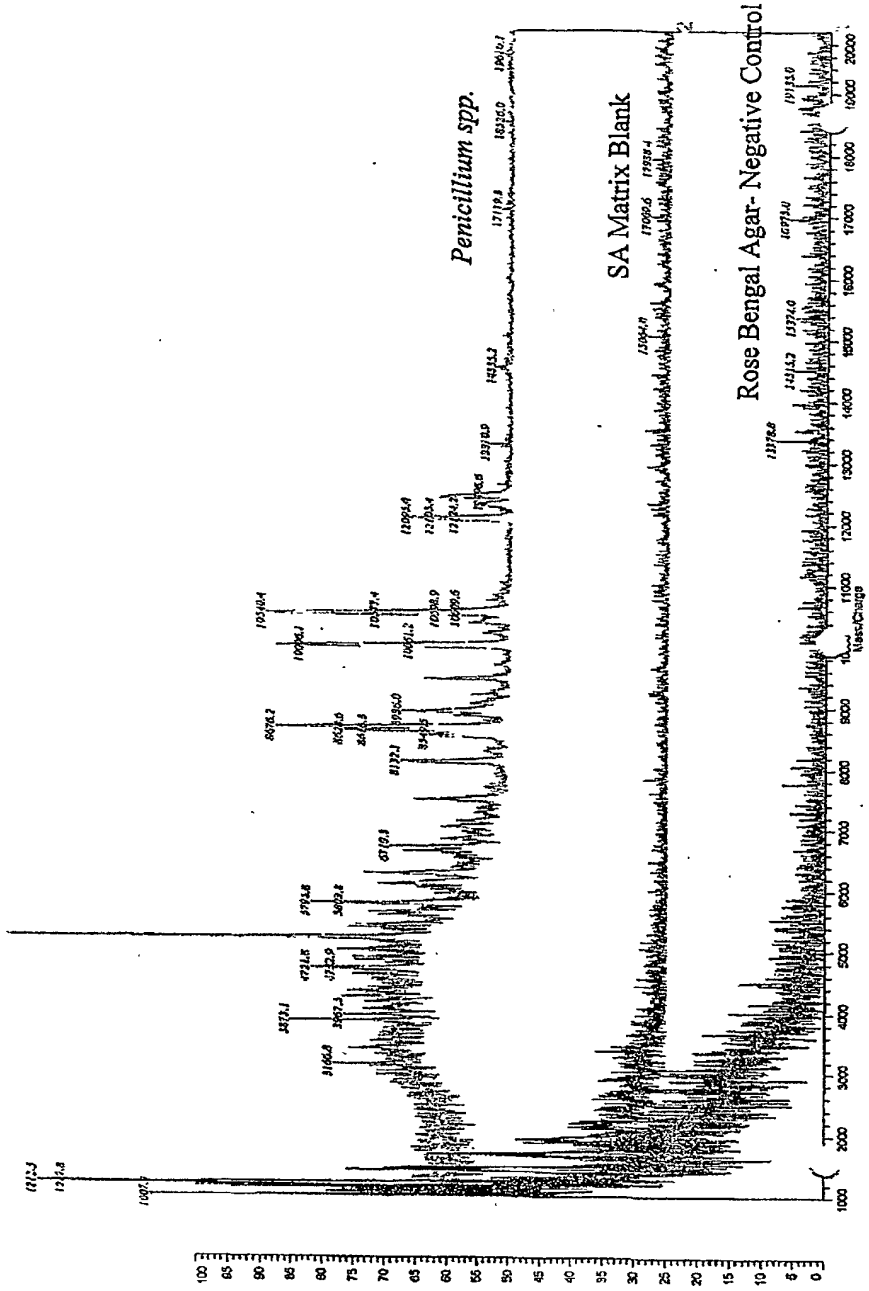

Figure 9: MALDI-TOFMS of *Penicillium Spp.*